RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

10/526,429
Patho
3/11/05

ENTERED



PCT

RAW SEQUENCE LISTINGPATENT APPLICATION: **US/10/526,429**DATE: 03/11/2005

TIME: 09:34:34

Input Set : D:\Sequence Listing.txt
Output Set: N:\CRF4\03112005\J526429.raw

5 <110> APPLICANT: THE HOSPITAL FOR SICK CHILDREN

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9 <120> TITLE OF INVENTION: DIAGNOSIS OF SHWACHMAN-DIAMOND SYNDROME
    13 <130> FILE REFERENCE: 3206-264/PAR
C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/526,429
C--> 19 <141> CURRENT FILING DATE: 2005-02-28
    23 <150> PRIOR APPLICATION NUMBER: 60/406,950
    25 <151> PRIOR FILING DATE: 2002-08-30
    29 <160> NUMBER OF SEQ ID NOS: 50
    33 <170> SOFTWARE: PatentIn version 3.1
    37 <210> SEQ ID NO: 1
    39 <211> LENGTH: 1604
    41 <212> TYPE: DNA
    43 <213> ORGANISM: Homo sapiens
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    51 <223> OTHER INFORMATION: human SBDS
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    57 <221> NAME/KEY: CDS
    59 <222> LOCATION: (185)..(934)
    61 <223> OTHER INFORMATION:
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    70 ccttcaggct ggacggcgcg ggtcagccct ggttcgccgg cttctgggtc tttgaacagc
                                                                              180
    72 egeq atq teq ate tte acc ecc acc aac eaq atc ege eta acc aat gtg
                                                                              229
    73
             Met Ser Ile Phe Thr Pro Thr Asn Gln Ile Arg Leu Thr Asn Val
                                                                              277
     76 gcc gtg gta cgg atg aag cgt gcc ggg aag cgc ttc gaa atc gcc tgc
    77 Ala Val Val Arg Met Lys Arg Ala Gly Lys Arg Phe Glu Ile Ala Cys
    78
                                                                              325
    80 tac aaa aac aag gtc gtc ggc tgg cgg agc gtc gta gaa aaa gac .ctc
    81 Tyr Lys Asn Lys Val Val Gly Trp Arg Ser Gly Val Glu Lys Asp Leu
                    35
                                        40
    84 gat gaa gtt ctg cag acc cac tca gtg ttt gta aat gtt tct aaa ggt
                                                                              373
    85 Asp Glu Val Leu Gln Thr His Ser Val Phe Val Asn Val Ser Lys Gly
                                    55
                                                                              421
    88 cag gtt gcc aaa aag gaa gat ctc atc agt gcg ttt gga aca gat gac
    89 Gln Val Ala Lys Lys Glu Asp Leu Ile Ser Ala Phe Gly Thr Asp Asp
    90
                                70
            65
                                                                              469
    92 caa act gaa atc tgt aag cag att ttg act aaa gga gaa gtt caa gta
    93 Gln Thr Glu Ile Cys Lys Gln Ile Leu Thr Lys Gly Glu Val Gln Val
    96 tca gat aaa gaa aga cac aca caa ctg gag cag atg ttt agg gac att
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Input Set : D:\Sequence Listing.txt
Output Set: N:\CRF4\03112005\J526429.raw

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98 100 105 110										
100 gca act att gtg gca gac aaa tgt gtg aat cct gaa aca aag aga cca	565									
101 Ala Thr Ile Val Ala Asp Lys Cys Val Asn Pro Glu Thr Lys Arg Pro										
102 115 120 125	612									
104 tac acc gtg atc ctt att gag aga gcc atg aag gac atc cac tat tcg	613									
105 Tyr Thr Val Ile Leu Ile Glu Arg Ala Met Lys Asp Ile His Tyr Ser										
106 130 135 140	661									
108 gtg aaa acc aac aag agt aca aaa cag cag gct ttg gaa gtg ata aag	661									
109 Val Lys Thr Asn Lys Ser Thr Lys Gln Gln Ala Leu Glu Val Ile Lys										
110 145 150 155	700									
112 cag tta aaa gag aaa atg aag ata gaa cgt gct cac atg agg ctt cgg	709									
113 Gln Leu Lys Glu Lys Met Lys Ile Glu Arg Ala His Met Arg Leu Arg 114 160 165 170 175										
114 160 165 170 175 116 ttc atc ctt cca gtc aat gaa ggc aag aag ctg aaa gaa aag ctc aag	757									
117 Phe Ile Leu Pro Val Asn Glu Gly Lys Lys Leu Lys Glu Lys Leu Lys	757									
118 180 185 190										
120 cca ctg atc aag gtc ata gaa agt gaa gat tat ggc caa cag tta gaa	805									
121 Pro Leu Ile Lys Val Ile Glu Ser Glu Asp Tyr Gly Gln Gln Leu Glu	005									
122 195 200 205										
124 atc gta tgt ctg att gac ccg ggc tgc ttc cga gaa att gat gag cta	853									
125 Ile Val Cys Leu Ile Asp Pro Gly Cys Phe Arg Glu Ile Asp Glu Leu										
126 210 215 220 220 220 220 220 220 220 220 220 22										
128 ata aaa aag gaa act aaa ggc aaa ggt tct ttg gaa gta ctc aat ctg	901									
129 Ile Lys Lys Glu Thr Lys Gly Lys Gly Ser Leu Glu Val Leu Asn Leu										
130 225 230 235										
132 aaa gat gta gaa gaa gga gat gag aaa ttt gaa tgacacccat caatctcttc	954									
133 Lys Asp Val Glu Glu Gly Asp Glu Lys Phe Glu										
134 240 245 250										
136 acctctaaaa cactaaagtg tttccgtttc cgacggcact gtttcatgtc tgtggtctgc	1014									
138 caaatacttg cttaaactat ttgacatttt ctactttgtg ttaacagtgg acacagcaag	1074									
140 gctttcctac ataagtataa taatgtggga atgatttggt tttaattata aactggggtc	1134									
142 taaatcctaa agcaaaattg aaactccaag atgcaaagtc cagagtggca ttttgctact	1194									
144 ctgtctcatg ccttgatagc tttccaaaat gaaagttact tgaggcagct cttgtgggtg	1254									
146 aaaagttatt tgtacagtag agtaagatta ttaggggtat gtctatacaa caaaaggggg	1314									
148 ggtctttcct aaaaaagaaa acatatgatg cttcatttct acttaatgga acttgtgttc	1374									
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152 cagatataga aaaattgtgc cggacttacc tttcattgaa catgctgcca taacttagat	1494									
154 tattcttggt taaaaaataa aagtcactta tttctaattc ttaaagttta taatatatat	1554									
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173 <223> OTHER INFORMATION: NUMBER SEDS 175 <400> SEQUENCE: 2										
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Output Set: N:\CRF4\03112005\J526429.raw

178	1				5					10					15	
		Val	Ara	Met		Arg	Δla	Glv	Lvs		Phe	Glu	Tle	Ala		Tvr
182			3	20	_,,			- 1	25	5				30	0,0	- 1 -
	Lvs	Asn	Lvs		Val	Gly	Trn	Ara		Glv	Val	Glu	Lvs		Len	Asp
186	_,,		35			U-1		40	-	1			45			
	Glu	Va1		Gln	Thr	His	Ser		Phe	Val	Asn	Val		Lvs	Glv	Gln
190	Olu	50	пси	OIII	1111	1110	55	vui	1110	1 41	11011	60	501	_,	017	0111
	Val		Lvs	Lvs	Glu	Asp		Tle	Ser	Ala	Phe		Thr	Asp	Asp	Gln
194		nια	цуз	цуз	Olu	70	ыси	110	DCI	2114	75	O _T		r.op	p	80
-		Glu	Tle	Cvc	Laze	Gln	Tle	T.e.11	Thr	Lvs		Glu	Val	Gln	Val	
198		014		Cyb	85	0111				90	017		• • • •		95	001
	Δsn	Lvs	Glu	Ara		Thr	Gln	Len	Glu		Met	Phe	Ara	Asp		Ala
202	1105	2,5	014	100		****	0211		105	0				110		
	Thr	Tla	Val		Aen	Lys	Cve	Val		Pro	Glu	Thr	Lvc		Pro	Tyr
206	1111	116	115	AIG	пор	цуз	Cys	120	non	110	Olu	1111	125	9	110	- 7 -
	Thr	₹72]		T.011	Tla	Glu	Ara		Mot	Lare	Aen	Tla		Tur	Sar	Val
210	TIII	130	116	пеп	116	Giu	135	пια	riec	цуз	ьэр	140	1113	ıyı	561	Vai
	Tara		7 an	Tara	602	Thr		Cln	Gln.	λla	Lou		Wal	Tla	Larc	Gln
	_	1111	ASII	пур	SEL	150	пуъ	GIII	GIII	Ата	155	GIU	vai	116	цур	160
	145	Tara	C1.,	T ***	Mot	Lys	T10	C1.,	71 ***	ת דת		Mot	7.20	Lou	λνα	
217	ьеи	пуъ	GIU	пур	165	цур	116	GIU	Arg	170	urs	Mec	ALG	пеп	175	F.IIC
	т10	T 011	Dro	v-1		C1,,	C111	Tara	Tarc		Tvc	Clu	Tarc	T OIL		Pro
222	116	пеп	FIO	180	ASII	Glu	GIY	Бур	185	пец	цуъ	GIU	цуз	190	цуз	110
	T 011	т1.	Tvra		т	Glu	C02	C111		There	Gl ₁₇	Cln	Gln		Clu	Tlo
225	neu	TTE	195	vai	116	GIU	ser	200	Asp	ıyı	Gry	GIII	205	Бец	Giu	116
	17 n]	Crea		Tlo	7 an	Pro	C111		Dho	7~~	C1,,	т1 о		C111	T 011	Tle
	vaı	210	пеп	TIE	Asp	PIO	215	Cys	PIIE	Arg	GIU	220	Asp	Giu	neu	116
230	T ***		~1	Πρ∞	T	C1.,		C111	C0~	T 011	C7.,		T 011	λan	T 011	Tvc
	225	пур	GIU	IIII	гур	Gly 230	пÀя	GTA	ser	Leu	235	vai	Бец	ASII	neu	240
		77-1	C1.,	C1.,	C111	Asp	C311	Tarc	Dho	Glu	233					240
238	АБР	vai	Giu	GIU	245	Asp	Giu	пуъ	PILE	250						
	-210)	70 TI) NO						250						
			-	ON C												
	<212			H: 2!	50											
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		ser	тте	Pile	Int	Pro	THE	ASII	GIII		Arg	ьеи	1111	ASII		Ата
262		777	7	34	J	7	77.	~1	T	10	Dho	~ 1	т1.	77-	15	T
	val	٧aı	arg		гÀг	Arg	AIG	GTA		arg	rne	GIU	116		Cys	TÀT
266	T	7	T	20	**- 7	a1	M	7	25	~1	37_ 3	a1	T	30	T	7 ~~
	гла	ASI	_	vaı	vaı	Gly	rrp	_	ser	сту	vaı	GIU	_	Asp	ьeu	Asp
270	a1	77. 7	35	43	m1	77 <i>2</i> -	0	40	ml	17. 7	7	17c 7	45	T	01	~1
	GIU		ьeu	GIN	ınr	His		val	rne	val	ASII		ser	гля	GTÅ	GIU
274	77 - 7	50	T	T	~1	7	55	T1 -	0	7 T -	Db	60	ml	7	7 ~	~1 -
		Ата	гÀг	ьys	GIU	Asp	ьeu	тте	ser	ΑΙα		GTĀ	ınr	Asp	Asp	
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	Thr	Ile	Val 115	Ala	Asp	Lys	Cys	Val 120	Asn	Pro	Glu	Thr	Lys 125	Arg	Pro	Tyr	
	Thr	Val 130	Ile	Leu	Ile	Glu	Arg		Met	Lys	Asp	Ile 140	His	Tyr	Ser	Val	
297	Lys 145		Asn	Lys	Ser	Thr 150	Lys	Gln	Gln	Ala	Leu 155	Glu	Val	Ile	Lys	Gln 160	
301		Lys	Glu	Lys	Met 165		Ile	Glu	Arg	Ala 170		Met	Arg	Leu	Arg 175		
	Ile	Leu	Pro			Glu	Gly	Lys	_		Lys	Glu	Lys			Pro	
	Leu	Ile	Lys	180 Val	Ile	Glu	Ser		185 Asp	Tyr	Gly	Gln		190 Leu	Glu	Ile	
310 313	Val	Cys	195 Leu	Ile	Asp	Pro	Gly	200 Cys	Phe	Arg	Glu	Ile	205 Asp	Glu	Leu	Ile	
314 317	Lys	210 Lys	Glu	Thr	Lys	Gly	215 Lys	Gly	Ser	Leu	Glu	220 V al	Leu	Asn	Leu	Lys	
318	225		Glu			230					235					240	
322	_				245		0	-10		250							
			EQ II ENGTI														
			YPE:		9												
			RGAN:		Art	ific	ial 9	Semi	ence								
			EATU														
			THER		ORMA'	rion	: pr	imer									
339	<40	0 > S1	EQUE	NCE:	4		_										
340	gcgt	taaaa	aag o	ccaca	aata	2											19
			EQ II														
			ENGT		5												
			YPE:		7	. ـ ـ ع ـ	:-7 (7 .									
			RGAN: EATUI		AI'U	LLIC	laı :	seque	ence								
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			EQUE			11011	. pr.	IIICI									
			agt a			a ct	agg										25
		-	EQ II	-	-												
363	<21	1> L	ENGT	H: 19	9												
365	<212	2> T	YPE:	DNA													
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			EATU														
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			EQUE														10
			tgt (EQ II			J											19
			ENGTI														
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Input Set : D:\Sequence Listing.txt
Output Set: N:\CRF4\03112005\J526429.raw

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VERIFICATION SUMMARY

DATE: 03/11/2005

PATENT APPLICATION: US/10/526,429

TIME: 09:34:35

Input Set : D:\Sequence Listing.txt
Output Set: N:\CRF4\03112005\J526429.raw

L:17 M:270 C: Current Application Number differs, Replaced Current Application Number

L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:65 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:61